

Goal: Sustainable and Resilient Communities



Sustainable development is...

"...development that meets the needs of the present without compromising the ability of future generations to meet their own needs." - Brundtland Commission Report 1987

Envision is a Joint Collaboration





ISI Founding Organizations:







LEED Rating System

- Rating system for buildings
- Focus on comfort and health of building occupants
- Not applicable to civil infrastructure (roads, bridges, pipelines, etc.)



What Types of Infrastructure Does Envision Rate?











ENERGY

Geothermal

Hydroelectric

Nuclear

Coal

Natural Gas

Oil/Refinery

Wind

Solar

Biomass

WATER

Potable water distribution

Capture/Storage

Water Reuse

Storm Water

Management

Flood Control

WASTE

Solid waste

Recycling

Hazardous

Waste

Collection &

Transfer

TRANSPORT

Airports

Roads

Highways

Bikes

Pedestrians

Railways

Public Transit

Ports

Waterways

LANDSCAPE

Public Realm

Parks

Ecosystem

Services

Natural Infrastructure

INFORMATION

Telecommunications

Internet

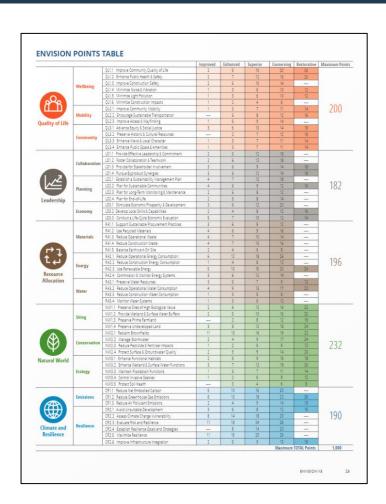
Phones

Data Centers

Sensors

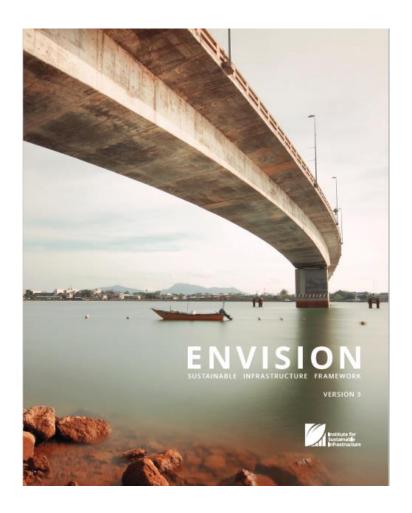
Why Use Envision?

- Apply best practices
- ➤ Incorporate triple bottom line
- Be consistent, transparent, and accountable



How is Envision Offered?

- Pre-assessment checklist
- Guidance manual
- > Online scoresheet



Envision v3: 64 Credits in 5 Categories



QUALITY OF LIFE

13 CREDITS



LEADERSHIP
11 CREDITS



RESOURCE ALLOCATION
15 CREDITS

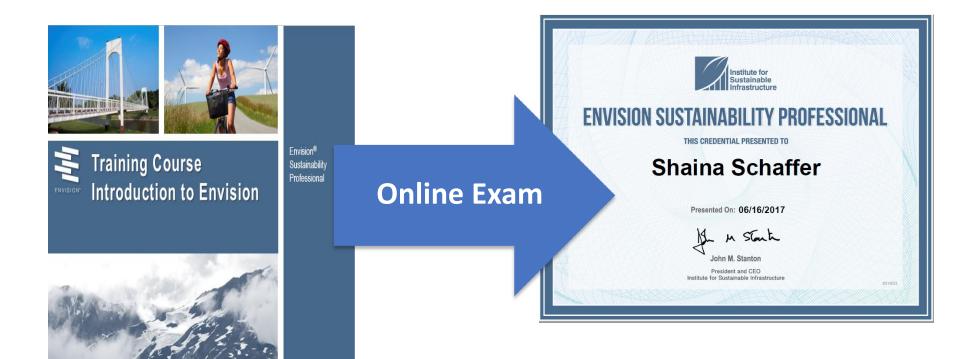


NATURAL WORLD
14 CREDITS



CLIMATE AND RESILIENCE
11 CREDITS

Professional Credential



Project Awards











Communities Using Envision



Communities Using Envision











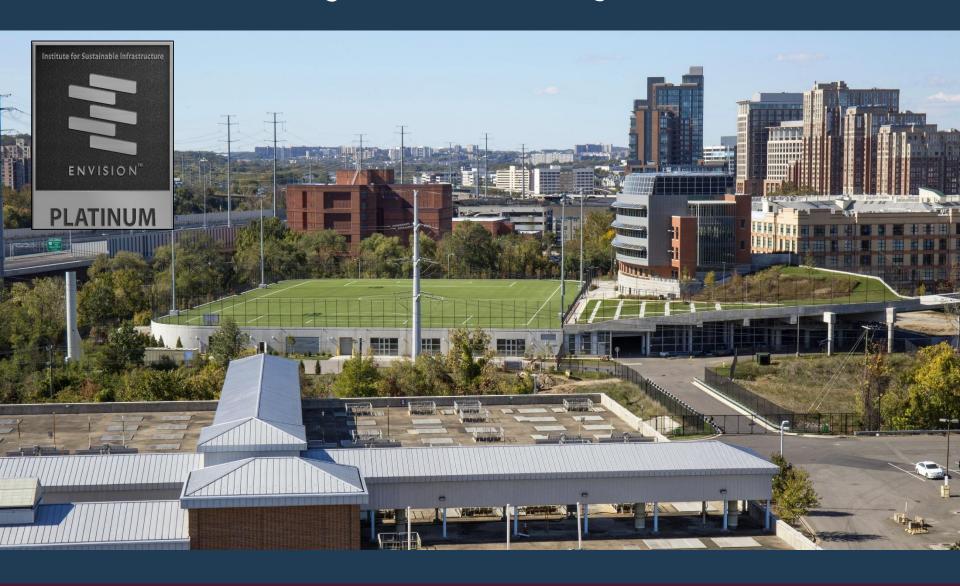




Envision in Virginia



Alexandria Renew Enterprises Nutrient Management Facility Earns Platinum



Virginia Beach Marshview Park Phase 1 Earns Silver



How Can Envision Help Falls Church?

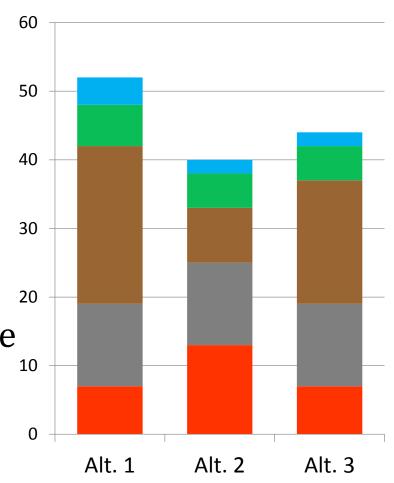


Translate Goals into Actions on Infrastructure Projects

Document & Measure Progress Towards Community Goals

Envision is a Tool for...

- ✓ Planning
- ✓ Project design
- ✓ Project construction
- ✓ Operations and maintenance
- ✓ Outreach



You can use Envision to...

- ✓ Promote education on sustainability & structure outreach
- ✓ Quantify sustainability, including soft benefits
- ✓ Optimize benefits across triple bottom line
- ✓ Incorporate life cycle planning
- ✓ Compare different types of infrastructure projects
- ✓ Encourage collaboration across departments or jurisdictions
- ✓ Identify benchmarks, set targets, and track performance

Envision®

Translating Goals into Project Actions



